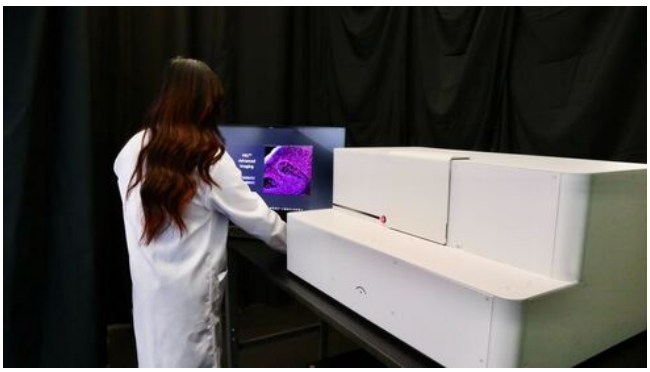
MLI™ Slide Scanning as a Service

Driving discovery by transforming microscopy

Why Choose illumiSonics?

Our Multi Laser Imaging (MLI™) scanners offer high resolution slide scanning of **unstained** FFPE tissue. The MLI™ system outputs rich multi-channel molecular contrast that can be used for virtual staining, biomarker extraction, or AI workflows.

We can support your project whether you're looking to digitize a single slide, an entire block, or collection of blocks. We are eager to work with you to make your project a success.



MLI™ scanning in action at our office in Waterloo.

How it Works?

1. **Request a Quote**
   Tell us about your sample and scanning needs, and we will provide a quote
2. **Send Samples**
   Ship or drop off unstained FFPE slides or blocks
3. **Scanning & QA**
   We will scan, digitize, and ensure high quality images
4. **Delivery**
   You will receive image files via secure link and slides/blocks will be returned to you

What MLI™ Microscopy Offers

MLI™ is a **label-free** microscope which captures a detailed view of molecular distributions and tissue morphology in unstained FFPE slides [1]. MLI™ dramatically reduces pre-analytic variability, and leaves the tissue unaltered for downstream clinical or analytic testing. MLI™ gives virtual H&E diagnostically equivalent to chemical H&E in skin and breast cancers [2,3]. **See pages 2 & 3 for a breakdown of our unique contrasts.**

What MLI™ Can Do For You

Capture 6 channels of rich MLI™ data for every pixel on your 40x whole slide FFPE image enabling:

- Multiplexed virtual chemical and immunohistochemical stains from one scan
- Custom biomarker extraction
- Novel disease classifiers
- Prognostic algorithms for disease progression
- New predictive assays for drug response

What We Offer

- Experienced AI team to support training custom staining and classification algorithms
- Diverse clinical advisory team to assist translational and clinical studies
- Accepts international shipments/customers

Technical Specifications

Sample Requirements:

- 25 x 75mm microscope slides
- Unstained FFPE tissue, without cover slip

Output Specifications:

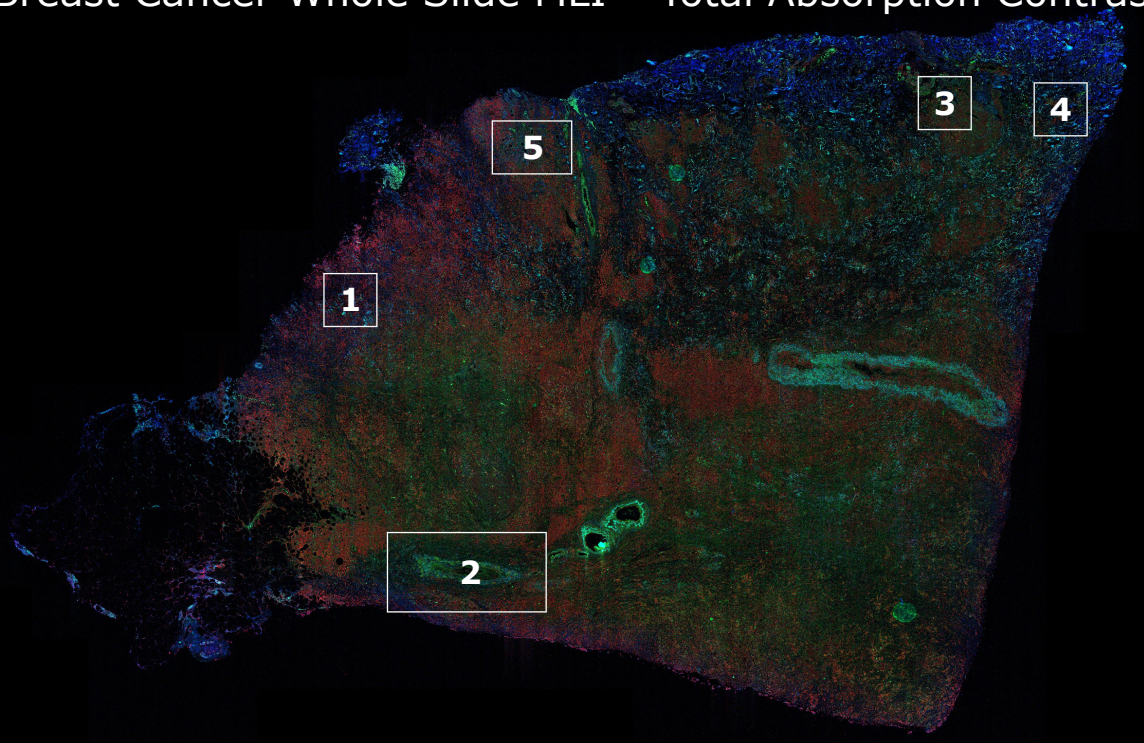
- 40x whole slide MLI™ images (6-channel) in standard microscopy format (e.g. OME-TIFF)

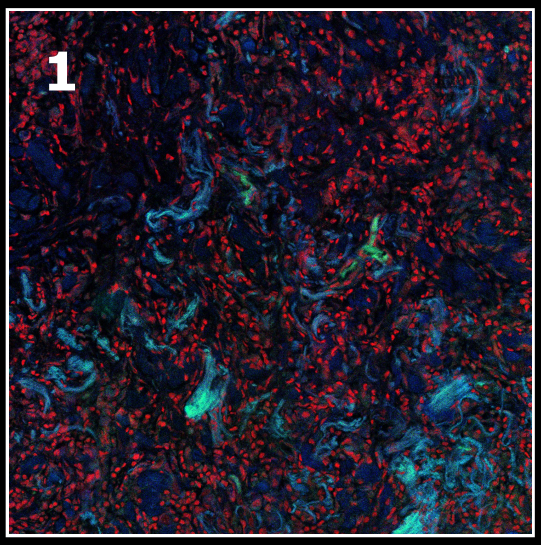
Interested in our Scanning Services?

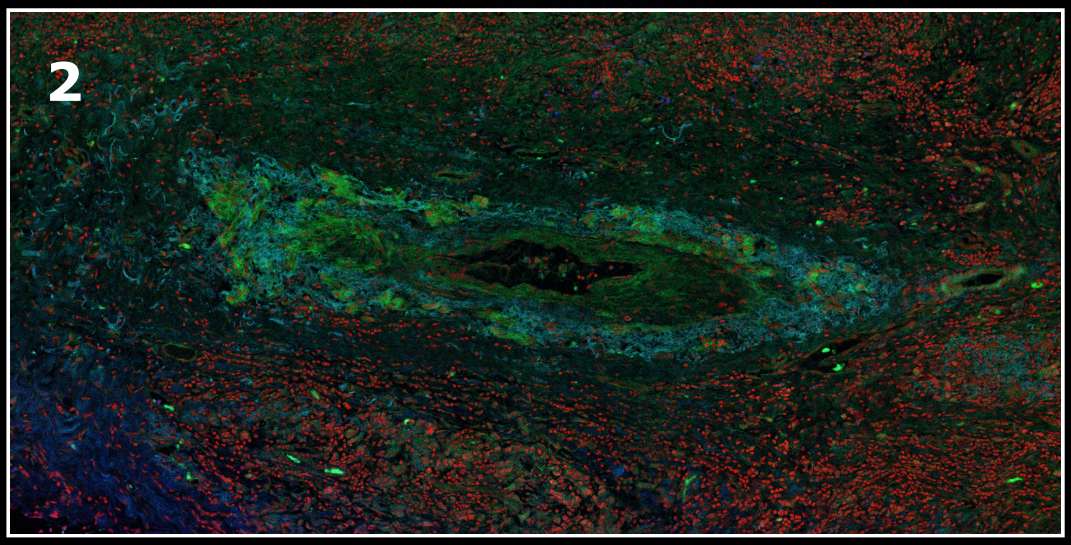
Reach out for a quote today at: **contact@illumisonics.com**

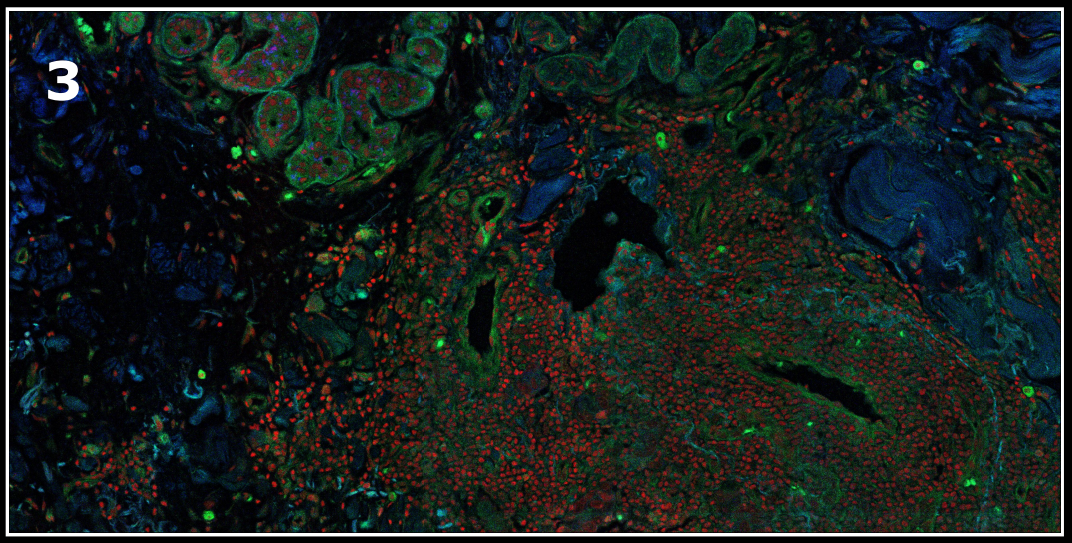
Multi-Laser Imaging Contrasts

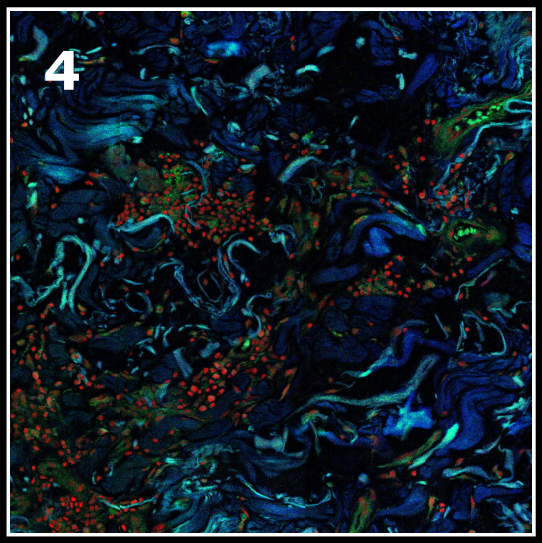
Breast Cancer Whole Slide MLI™ Total Absorption Contrast



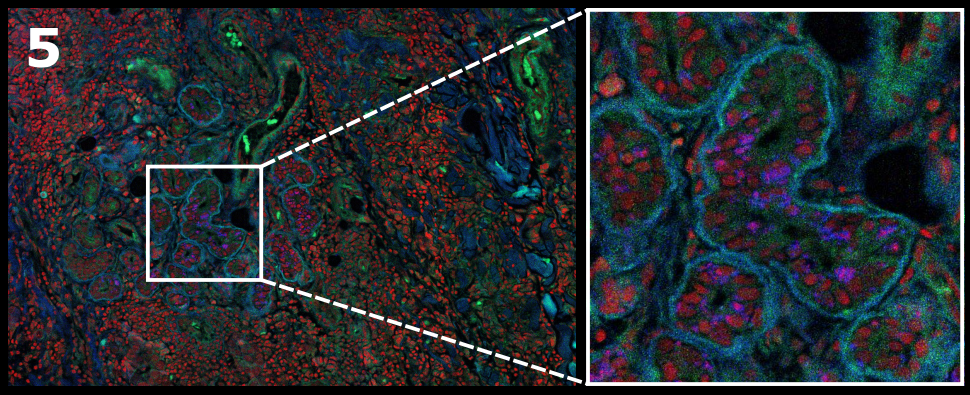


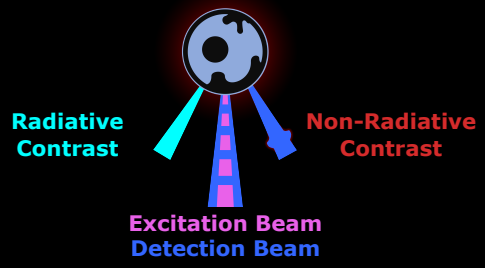






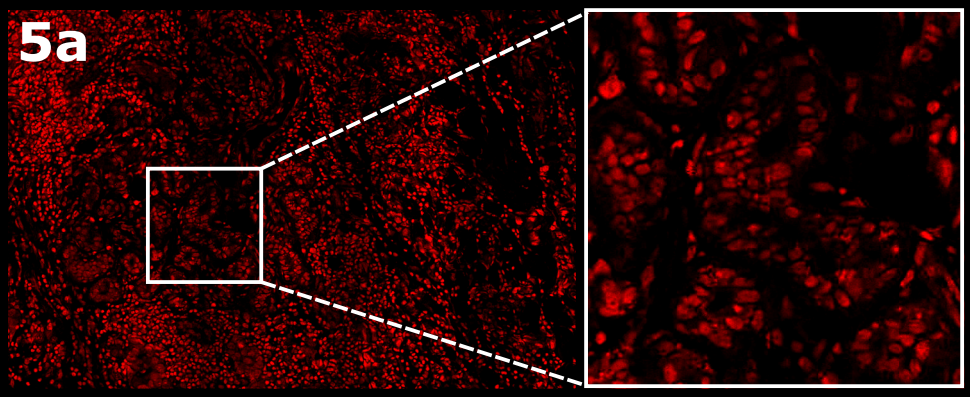
MLI™ Total Absorption Contrast

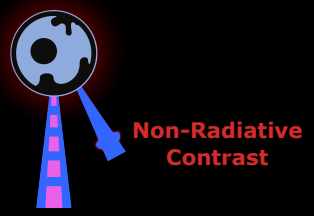




Captures a complete picture of the optical absorption of UV light.

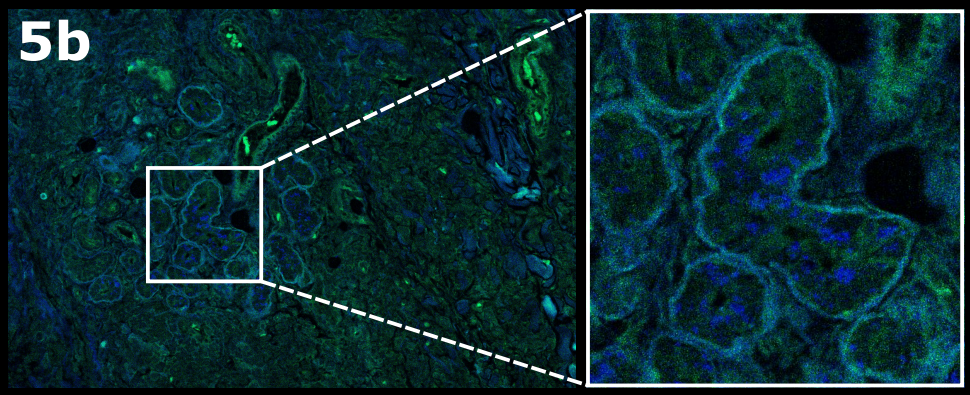
MLI™ Non-Radiative Contrast

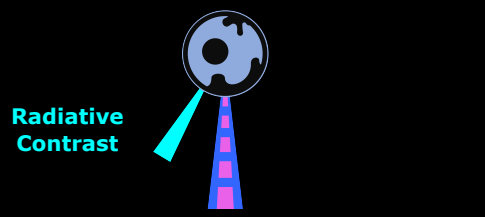




Captures a detailed view of the energy deposited in the sample.

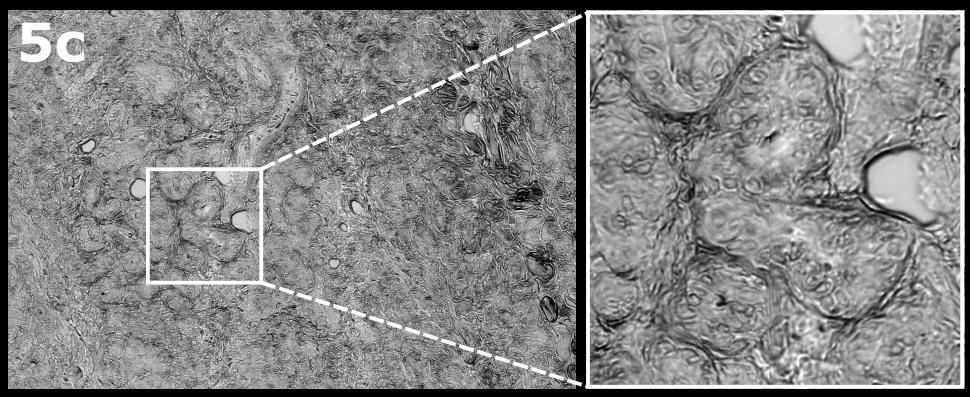
MLI™ Radiative Contrast





Captures the complete spectral signature of autofluorescent light emitted from the sample.

MLI™ Scattering Contrast



Captures the attenuation and scattering of light passing through the sample.